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U.S. Appl. No. 10/716,598

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gert Johannes Brits
Title: Plectranthus Plant Named 'K111201'
(as amended)
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Art Unit: 1661

**SUBMISSION OF SUBSTITUTE SPECIFICATION
UNDER 37 CFR 1.125 and MPEP § 608.01(q)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant hereby submits a Substitute Specification in the above-captioned application. Pursuant to 37 CFR 1.125 and MPEP § 608.01(q), Applicant certifies that the Substitute Specification contains no new matter.

Respectfully submitted,

Date

June 21, 2004

By

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SUBSTITUTE SPECIFICATION

PLECTRANTHUS PLANT NAMED 'K111201'

Latin name of genus and species of the plant claimed:

Plectranthus hybrida

5 Variety denomination:

K111201

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Plectranthus* plant, botanically known as *Plectranthus hybrida* (Family Lamiaceae), hereinafter referred to
10 by the name 'K111201'.

The new *Plectranthus*, 'K111201', is a new and distinct mutation (sport), detected in a production batch of *Plectranthus hybrida*, 'P000306' (U.S. Plant Patent application serial no. 10/716,659) by the Inventor, Gert Johannes Brits, in Kortegaard, Nørre Søby, Denmark. The objective of the breeding program in which the mutation
15 was detected is to improve upon the *Plectranthus* varieties currently available, such as the cultivar 'Edelbau' (unpatented), by developing a *Plectranthus* variety with a more compact growth habit, larger flowers and improved vigor. The new cultivar has been produced only by vegetative propagation (cuttings). The Inventor selected the new *Plectranthus* cultivar on the basis of its compact growth habit, larger flowers and
20 increased vigor.

Asexual reproduction of the new cultivar by terminal cuttings taken and propagated, has shown that each of the progenies exhibit characteristics identical to the original plant. These characteristics have been shown to come true to form through

many generations of asexual propagation under commercial production conditions in Nr. Lyndelse, Fyn, Denmark. The present invention has been tested under lighted greenhouse conditions and for keeping quality in a consumer environment, but may differ in various aspects if grown under different conditions.

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SUMMARY OF THE INVENTION

Plants of the cultivar 'K111201' have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, light intensity, day length, and fertility level without, however, any variance in genotype.

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The following traits have been repeatedly observed and are determined to be the unique characteristics of 'K111201'. These characteristics in combination distinguish 'K111201' as a new and distinct cultivar:

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1. White flowers with purple spots, upright corolla lip;
2. Compact and freely branching plant habit;
3. Shorter production time, 14 weeks compared to the typical 16 weeks; and
4. Shiny green foliage.

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Side-by-side comparisons between the instant plant and the "mother" cultivar 'P000306' were conducted by the Inventor. Plants of 'K111201' differ from 'P000306' in the following characteristics:

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1. Plants of 'K111201' have larger, almost white flowers with pink to purple spots, while plants of 'P000306' have slightly smaller pink flowers.

2. Plants of 'K111201' have better branching growth habit and shiner foliage than plants of 'P000306'.

3. Plants of 'K111201' have a faster growth rate than plants of 'P000306'.

4. Plants of 'K111201' have an upright main lip of corolla.

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BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographic drawings illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description, which more accurately describe the actual colors of 'K111201'.

The first photographic drawing shows a side perspective view of a typical flowering plant of 'K111201' in its entirety as grown in 12 cm pots. The second photographic drawing shows a close-up view of the inflorescence of 'K111201'. The third photographic drawing shows a close-up view of typical flowering racemes of 'K111201'.

DETAILED BOTANICAL DESCRIPTION

In the following description, color references are made to The Royal Horticultural Society (RHS) Colour Chart, 4th edition. Plants were grown under greenhouse conditions. The plants described were between 15 and 18 weeks old after cutting, as grown in 12 cm pots.

Parentage: Sport mutation discovered in a production batch of *Plectranthus hybrida*, 'P000306', a hybrid backcross between proprietary selection of *Plectranthus saccatus* named 'F1' (unpatented) and unnamed *Plectranthus hilliardiae* (unpatented).

Propagation:

Type cutting. Terminal vegetative cuttings.

5 Plant description:

Form: Perennial, herbaceous plant with upright, branched plant form.

Crop time: Flowering induced by short day treatment in 12 cm pots for 4 weeks under greenhouse conditions.

10 Plant height (soil level to top of plant plane): About 20 cm.

Plant spread: About 20 cm

Stem: Upright, stiff, square, branching from base, RHS 141 B (gray green)

Vigor: Vigorous growth rate

15 Foliage description: Leaves single, ovate, serrate. Arrangement: opposite, decussate.

Length: 7 cm. Width: 5 cm. Apex: Acuminate. Base: Cuneate. Texture: adaxial: rough (hispid), shiny; abaxial: smooth, velvety. Venation: prominent, green, RHS 138 A. Color, ventral side: Young foliage, upper and lower surfaces: RHS 136 A, green. Mature foliage, upper and lower surfaces: RHS 136 A. Color, dorsal side: Young foliage, RHS

20 139 C. Mature foliage: RHS 136 A.

Petiole: 2 cm in length, 2 mm diameter; hispid texture, RHS 138 A

Flower description:

Flower arrangement: Raceme of panicles.

25 Flower shape: Irregular labiate, flat tubular with 4 lips of different size and shape.

Flower longevity on the plant: Longevity of individual flowers is highly dependent on

temperature and light conditions; single flowers last 4 to 6 days in greenhouse conditions with full sun and temperatures not exceeding 20 C. 'K111201' may retain flowers up to 4 weeks with sufficient sunlight and temperatures not exceeding 20 C.

- 5 Number of flowers per inflorescence: 20; 60 per stem; up to 150 per plant.

Inflorescence size: Apical: 10 cm; Basal: 6 cm; Diameter: 6 cm; individual flower 25 mm vertical diameter, 9 mm horizontal diameter; 32 mm in flower depth (height).

Floral tube: Length 23 mm, vertical 7 mm, horizontal 4 mm

- 10 Buds: Length: Up to 12mm before antithesis; height: 5 mm; width: 1 mm; tubular with angular "head", RHS 145 C; base RHS 145 D to white, closest to RHS 155D.

- Petals: 5 fused to basal, flat tubular corolla. Lips spotted, velvety texture. Top lip (2 fused) to inverted cordate form, revolute upright, 12 mm. Bottom lip involute, almost cup-shaped, 7 mm. Wing lips small, rounded, 4 mm. Color: ventral side of lips: whiter than RHS 155 D; spots: violet, RHS 84 A; throat: white, RHS 155 D; dorsal side: white, RHS 155 C.

Sepals: 5, basally fused, 2 mm in length, 1 mm in width, immature and mature color RHS 138B, both upper and lower surfaces

- 20 Calyx: 5 pointed lobes fused at base; veins: green, RHS 138 B.

Pedicel: 6 mm length, 1 mm diameter, color RHS 138A

Peduncle: 6 mm length, 3 mm diameter, color RHS 138 A

Reproductive Organs:

Stamen: 4 monodelphous, lower part fused to corolla tube.

- 25 Anther: Kidney-shaped, purple, N79B; .25 mm; filament 6 mm

Pistil: 1, lower part fused to corolla tube; free part 5 mm, curling upward with
cleft stigma, purple, N79B

Ovary: N144A, yellow-green

Seed: 5 in quantity, 1 mm length, 1 mm diameter, color of immature seed RHS

5 150B

Fragrance: None

Weather tolerance: Plants of the new *Plectranthus* have exhibited good tolerance to
drought, rain and wind, low temperature resistant to 5 C.